

COTC



I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to: Attn: Certificate of Corrections Branch, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Printed or Typed Name of Person Mailing Paper or Fee: Barbara S. Pedersen

Signature: Barbara S. Pedersen

Date of Deposit: 7-18-05

PATENT APPLICATION
DOCKET NO. 3240

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Dennis Chilcote, et al. PATENT NO.: 6,890,440
SERIAL NO.: 10/632,527 ISSUE DATE: May 10, 2005
FILED: August 1, 2003
SUBJECT: Method And Apparatus For Enhancing Filter Bed Performance

Certificate
JUL 26 2005
of Correction

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450.

REQUEST FOR ISSUANCE OF CERTIFICATE OF CORRECTION

Sir:

Michael S. Gratz, one of the inventors in the above-identified patent, through the undersigned Attorney/Agent of record, respectfully requests that a Certificate of Correction to be issued in accordance with 37 C.F.R. 1.322 for the subject patent.

Enclosed herewith are two complete copies of Form PTO 1050 correcting the error in the above patent. The name of Michael S. Gratz is mistakenly listed with "Mike" as the first name, and should be corrected to "Michael". Attached please find a copy of the Initial Information Data Sheet, first page of the Non-Provisional Application, Official Updated Filing Receipt (non-

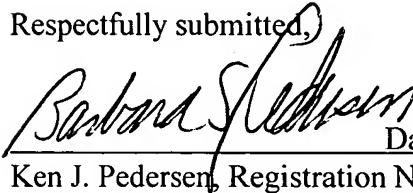
JUL 28 2005

Receipt (non-provisional) and Combined Declaration and Power of Attorney showing the proper first name for **Michael** S. Gratz. Note that this inventor signed his name on the Combined Declaration and Power of Attorney as "Michael S. Gratz". Therefore, the undersigned believes this correction should be made under 37 C.F.R. 1.322 and no fee is due.

Issuance of a Certificate of Correction to correct this error is therefore respectfully requested.

We shall appreciate your returning to us one executed copy of this Certificate of Correction for attachment to our Letters patent.

Respectfully submitted,

 Date: 7/18/05

Ken J. Pedersen, Registration No. 29,689

Barbara S. Pedersen, Registration No. 36,237

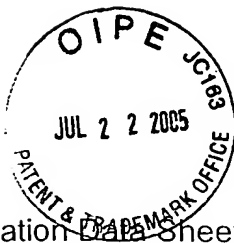
Shane A. Kennedy, Registration No. 54,760

P.O. Box 2666

Boise, ID 83701-2666

Telephone: 208-343-6355

Facsimile: 208-343-6341



Initial Information Data Sheet

*non-provisional
IIDS*

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Postal or Zip Code:: 55344
Citizenship Country:: USA



*First page of
non-professional*

U.S. CONVENTIONAL UTILITY PATENT APPLICATION

Attorney's Docket No: 3240

Certification of Express Mailing (37 C.F.R. Section 1.10)

I hereby certify that this Utility Patent Application is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" Number EV 307934178 US on the date below in an envelope with sufficient postage

addressed to: Mail Stop Patent Application, Assistant Commissioner of Patents, P.O. 1450, Alexandria, VA 22313 - 1450

Printed or Typed Name: Barbara S. Pedersen

Signature: *Barbara S. Pedersen*

Date of Deposit: 8-1-03

Title of Invention: **Method and Apparatus for Enhancing Filter Bed Performance**

Inventors: Dennis Chilcote
Michael S. Gratz
Robert Clifford
John Mills
Karie Mars
Gregory Vineretsky
Daniel McGraw
Alan Dunn
Bobby Dabbs

DESCRIPTION

5 This application claims priority of provisional application Serial Number 60/401,267, entitled "Method and apparatus for Improving the Withdrawal of Liquid from a Settled Bed of Solid Particles in a Microbial Reactor," filed August 4, 2002, which is incorporated herein by this reference.

BACKGROUND OF THE INVENTION

10 Field of the Invention.

15 This invention relates, generally, to apparatus and methods of operation for a filter bed installed in a microbial remediation reactor or in other chemical, petrochemical, waste, or food process vessels. More specifically, the invention relates to improvement of filter bed performance by moving and/or preventing formation of the sludge mat that tends to settle on top of the filter bed surface, so that the sludge mat does not block flow through the filter bed to an extent that requires premature backwashing of the filter bed.



UNITED STATES PATENT AND TRADEMARK OFFICE

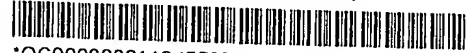
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/632,527	08/01/2003	1764	459	3240	11	21	3

27727
PEDERSEN & COMPANY, PLLC
P.O. BOX 2666
BOISE, ID 83701

CONFIRMATION NO. 4354

UPDATED FILING RECEIPT



OC000000011945585

Date Mailed: 02/23/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Dennis Chilcote, Minneapolis, MN;
Michael S. Gratz, Eden Prairie, MN;
Robert Clifford, Hopkins, MN;
John Mills, Shoreview, MN;
Gregory Vineretsky, Shoreview, MN;
Daniel McGraw, Eden Prairie, MN;
Alan Dunn, Eden Prairie, MN;
Bobby Dabbs, Humboldt, TN;
Karie Mars, Shoreview, MN;

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/401,267 08/04/2002

Foreign Applications

If Required, Foreign Filing License Granted: 10/30/2003

Projected Publication Date: 06/03/2004

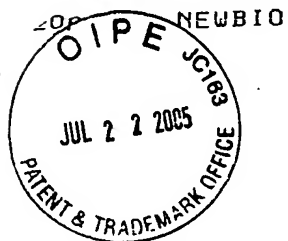
Non-Publication Request: No

Early Publication Request: No

Official
Filing
Receipt

(Non-
provisional)

FEB 25 2004



Attorney's File Number:
Applicant or Patentee:

3240

Hilcote, Gratz, Clifford, Mills, Mars, Vinerestsky, McGraw,
Dunn, and Dabbs

Serial or Patent No.: 10/632,527 Filed or Issued: Filed August 1, 2003

Title: METHOD AND APPARATUS FOR ENHANCING FILTER BED PERFORMANCE

COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION - Joint Inventors

As a below-named inventor, I hereby declare that:

Inventorship

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor, together with Karie Mars, of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND APPARATUS FOR ENHANCING FILTER BED PERFORMANCE, the specification of which:

_____ is attached hereto.

X was filed on August 1, 2003 as Application Serial No. 10/632,527.

I hereby authorize Attorney Ken J. Pedersen, Registration No. 29,689 and/or Patent Agent Barbara S. Pedersen, Registration No. 36,237 to fill in the above blanks and check the correct option as is necessary and appropriate.

Review of Patent Application

I hereby state that I have reviewed and understand the contents of the above identified specification and drawings, if any, including the claims, as amended by any amendment referred to above.

Duty to Disclose

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, section 1.56.

Claim of Priority: Foreign

I hereby claim foreign priority benefits under Title 35, United States Code, section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign applications for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s):

number	country	day/month/year filed	priority claimed:	
			yes	no
<u>n/a</u>	<u> </u>	<u> </u>		
<u> </u>	<u> </u>	<u> </u>		

Claim of Priority: United States and/or International

I hereby claim the benefit under Title 35, United States Code, section 120 of any United States or International application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application in the manner provided by the first paragraph of Title 35, United States Code, section 112, I acknowledge the duty to disclose material information as defined by Title 37, Code of Federal Regulations, section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Prior United States Application(s)/PCT International Applications:

application serial no.	filing date	status (patented, pending, abandoned)
<u>60/401,267</u>	<u>August 4, 2002</u>	<u>Provisional Application</u>
<u> </u>	<u> </u>	<u> </u>

Power of Attorney

I hereby appoint Attorney Ken J. Pedersen, Registration No. 29,689 and/or Patent Agent Barbara S. Pedersen, Registration No. 36,237, as my agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

All correspondence and all telephone communication should be addressed to:

Ken J. Pedersen
 Pedersen & Company, PLLC
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 Boise, Idaho, 83701-2666
 Telephone: (208) 343-6355
 Facsimile: (208) 343-6341

Declaration

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Inventor Dennis Chilcote
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Citizenship USA
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Signature Dennis Chilcote Date 10-2-03
Dennis Chilcote

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Residence (Town-State-Country) Eden Prairie, Minnesota
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Post Office Address 10305 W 70th Street
Eden Prairie, MN 55344

Signature Michael S. Graiz Date 10-2-03
Michael

Name of Inventor Robert Clifford
Residence (Town-State-Country) Hopkins, Minnesota
Citizenship USA
Post Office Address 10305 W 70th Street
Eden Prairie, MN 55344

Signature Robert Clifford Date 10/2/03
Robert Clifford



PEDERSEN & COMPANY, PLLC

KEN J. PEDERSEN
PATENT ATTORNEY

BARBARA S. PEDERSEN
PATENT AGENT

SHANE A. KENNEDY
PATENT ATTORNEY

INTELLECTUAL PROPERTY LAW
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STACEY D. COLEMAN-MAULE
OFFICE MANAGER

LISA K. KENNEDY
TECHNICAL ASSOCIATE

July 18, 2005

Attn: Certificate of Corrections Branch
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Re: Utility Patent
Inventor(s): Dennis Chilcote, et al.
Title: Method and Apparatus For Enhancing Filter Bed Performance
US Patent No.: 6,890,440
Issued Date: May 10, 2005
Docket No: 3240

Dear Sir:

Please find enclosed for the subject patent:

- 1) Certificate of Correction;
- 2) Request for Issuance of Certificate of Correction;
- 3) Copy of the following documents:
 - a) Initial Information Data Sheet;
 - b) First page of the Non-Provisional Application;
 - c) Official Updated Filing Receipt (non-provisional); and
 - d) Combined Declaration and Power of Attorney; and
- 4) Return postcard.

Respectfully submitted,

Ken J. Pedersen
Registration No. 29,689
Barbara S. Pedersen
Registration No. 36,237

Certification of First Class Mailing

I hereby certify that this correspondence and any documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail with sufficient postage on the date below in an envelope addressed to: Attn: Certificate of Corrections Branch, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Name: Barbara S. Pedersen
Signature:
Deposit Date: 7-18-05
cc: Client

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 6,890,440
APPLICATION NO.: 10/632,527
ISSUE DATE : May 10, 2005
INVENTOR(S) : Dennis Chilcote, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Inventor: Mike S. Gratz should read Michael S. Gratz.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Barbara S. Pedersen
Pedersen & Co., PLLC
PO Box 2666
Boise, ID 83701

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JUL 28 2005